

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651894

Luminaire Tested: **GALN-SA5A-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-840-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16293.5 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

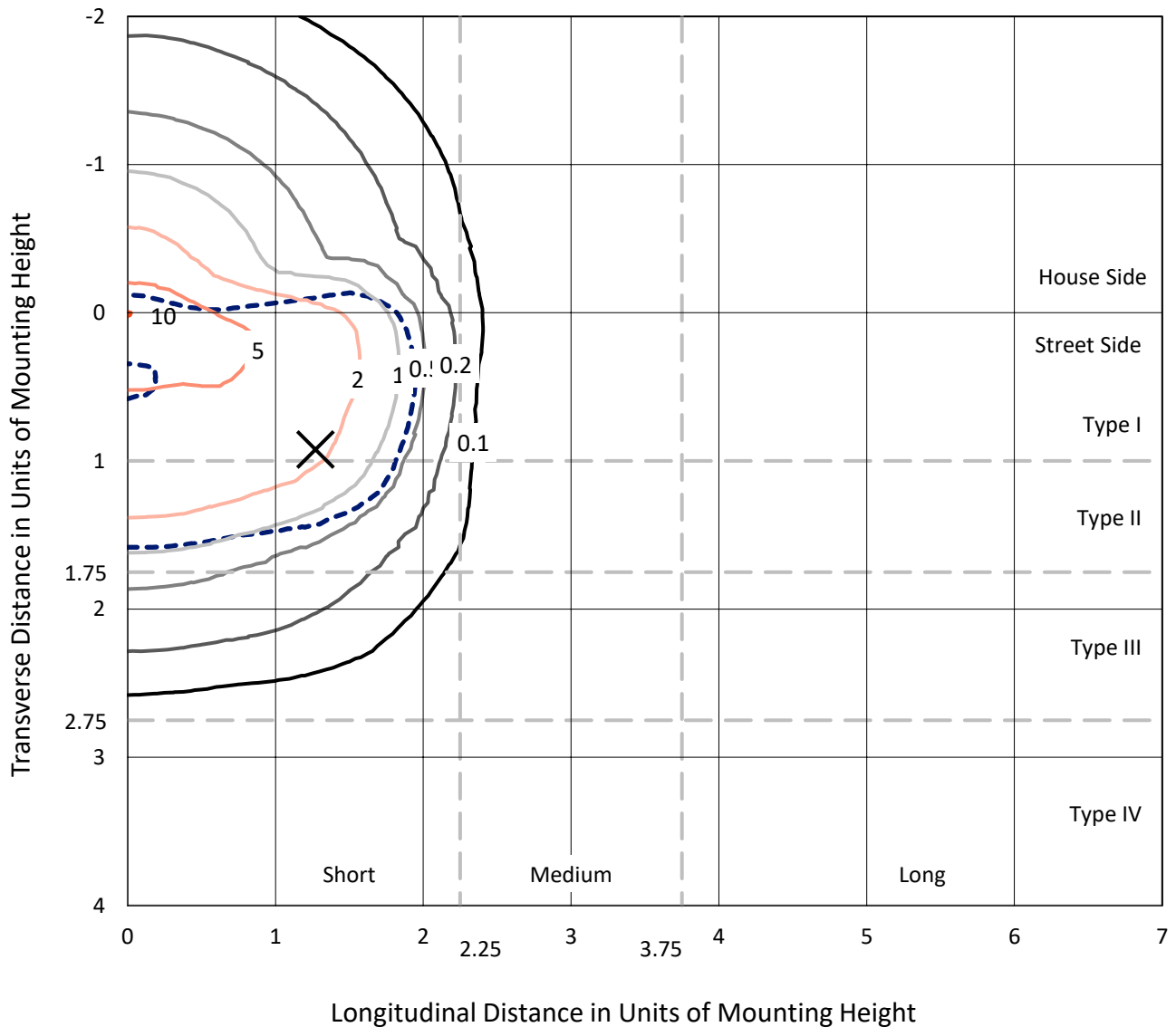
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

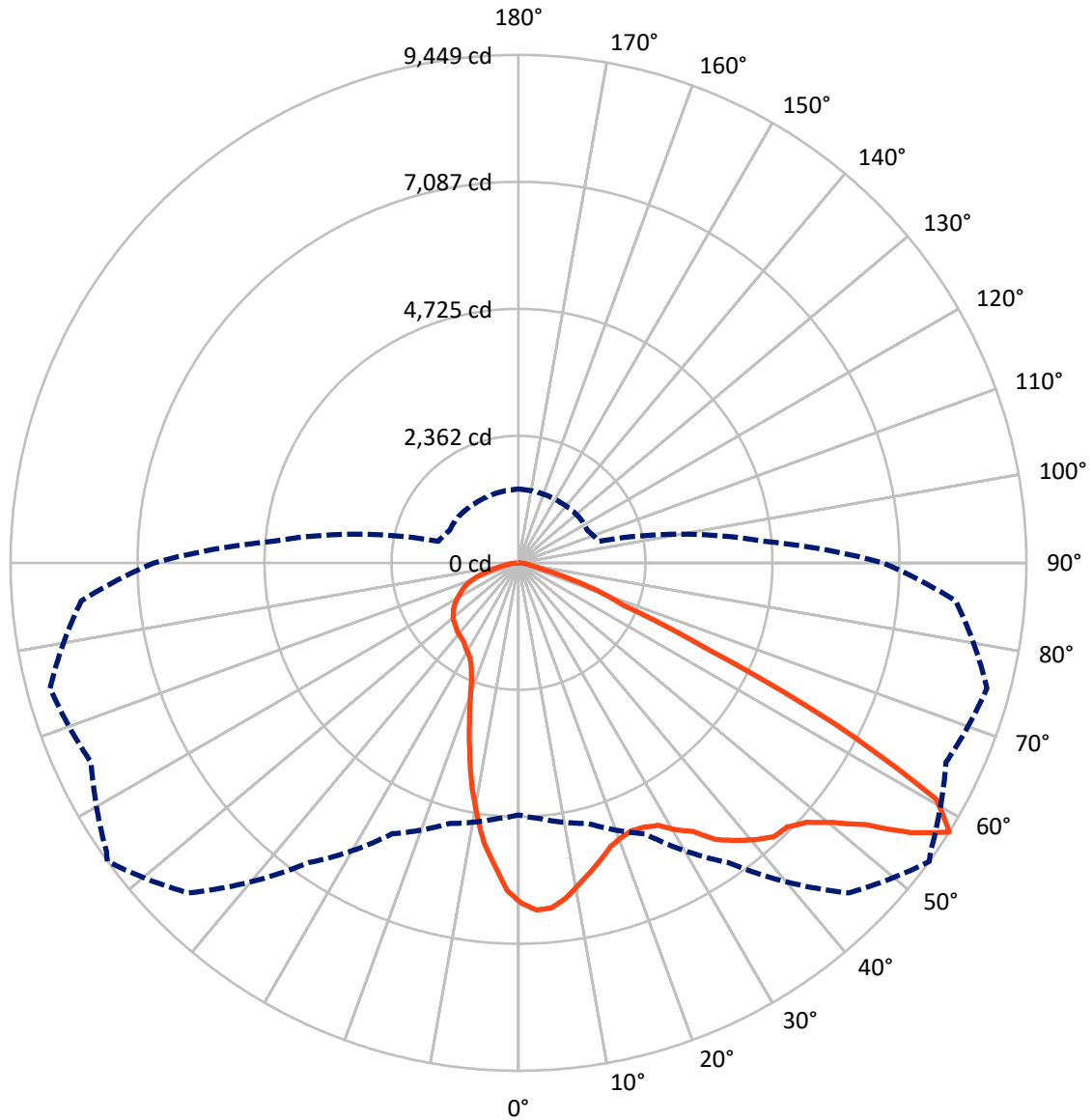
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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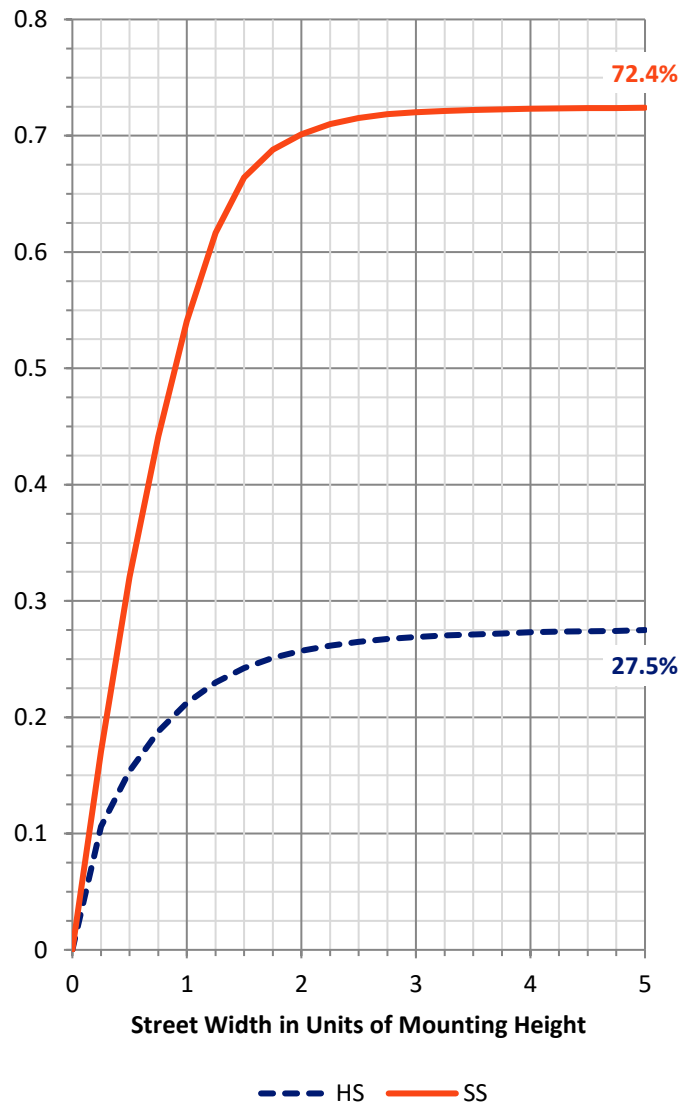
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4507.7	0.0	4507.7
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	11785.8	0.0	11785.8
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	16293.5	0.0	16293.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.2	3.4
10°-20°	1264.6	7.8
20°-30°	1776.8	10.9
30°-40°	2483.9	15.2
40°-50°	3362.8	20.6
50°-60°	4096.0	25.1
60°-70°	2133.4	13.1
70°-80°	546.6	3.4
80°-90°	83.4	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16293.5	100.0
0°-180°	16293.5	100.0

**Coefficient of Utilization**

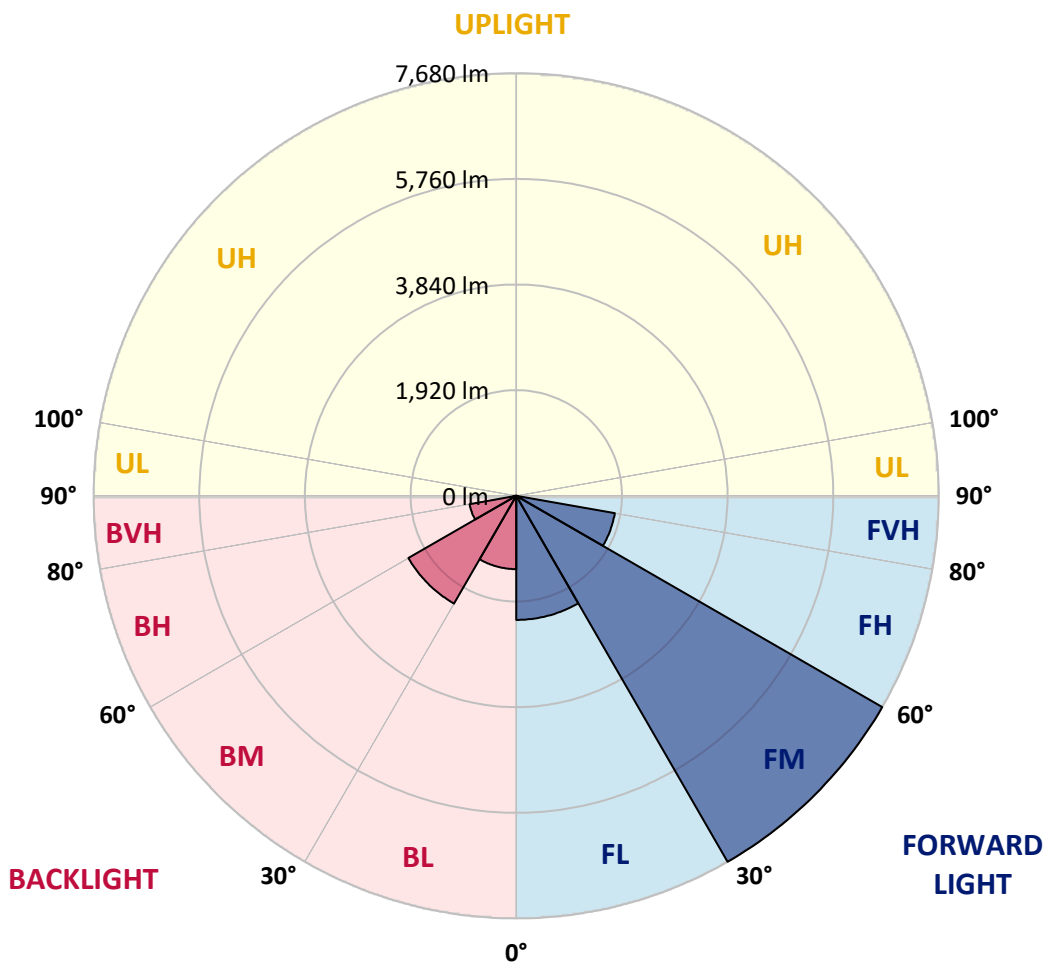


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2255.2	13.8			
FM (30°-60°)	7680.3	47.1			
FH (60°-80°)	1818.8	11.2			G2/5000
FVH (80°-90°)	31.5	0.2			G1/100
BL (0°-30°)	1332.3	8.2	B3/2500		
BM (30°-60°)	2262.4	13.9	B2/2500		
BH (60°-80°)	861.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	51.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6333.2	6333.2	6333.2	6333.2	6333.2	6333.2	6333.2	6333.2	6333.2	6333.2	6333.2
2.5°	6513.2	6488.1	6492.3	6525.8	6483.9	6467.1	6467.1	6385.5	6391.8	6335.2	6320.5
5°	6362.4	6303.8	6343.6	6393.9	6402.2	6419.0	6446.2	6425.2	6366.6	6305.9	6207.4
7.5°	5968.7	6021.1	6035.7	6071.3	6146.7	6215.8	6301.7	6243.1	6241.0	6180.3	6121.6
10°	5623.2	5591.7	5671.3	5723.7	5849.3	5964.5	6096.5	6090.2	6121.6	6052.5	5951.9
12.5°	5279.7	5254.6	5292.2	5411.7	5587.5	5755.0	5912.1	5853.5	6021.1	6008.5	5792.8
15°	4915.3	4934.1	4988.6	5099.6	5329.9	5531.0	5730.0	5732.1	5880.8	5931.0	5642.0
17.5°	4659.8	4638.9	4707.9	4873.4	5078.6	5319.5	5545.6	5591.7	5820.0	5849.3	5595.9
20°	4469.2	4498.5	4588.6	4672.3	4909.0	5200.1	5455.6	5472.4	5807.4	5887.0	5522.6
22.5°	4423.2	4406.3	4435.7	4571.8	4766.6	5082.8	5407.5	5470.3	5805.3	5874.5	5384.4
25°	4375.0	4429.4	4427.3	4563.4	4705.8	4988.6	5447.2	5516.4	5916.4	5939.4	5403.3
27.5°	4483.9	4477.6	4536.2	4546.7	4722.6	5013.7	5531.0	5583.3	6100.6	6081.8	5417.9
30°	4592.8	4561.3	4597.0	4720.5	4802.2	5158.2	5761.4	5757.1	6339.4	6326.8	5464.0
32.5°	4726.8	4712.1	4735.2	4844.1	4982.3	5350.9	5956.1	6079.7	6582.3	6661.9	5623.2
35°	4751.9	4812.6	4867.1	5013.7	5210.6	5663.0	6322.6	6425.2	6863.0	7112.2	5926.8
37.5°	4911.1	4934.1	5061.9	5321.6	5501.7	6079.7	6555.1	6620.0	7118.5	7401.2	6247.3
40°	5080.7	5108.0	5300.7	5572.9	5820.0	6352.0	6772.9	6793.9	7200.1	7623.2	6456.7
42.5°	5311.1	5336.2	5526.8	5868.2	6199.1	6584.4	6965.6	6988.6	7193.8	7878.7	6789.6
45°	5549.8	5610.6	5834.7	6222.1	6519.5	6856.7	7009.6	7103.8	7252.5	8107.0	7059.9
47.5°	5884.9	5941.5	6125.8	6504.9	6852.5	7095.4	7212.7	7304.8	7392.8	8305.9	7233.7
50°	6241.0	6251.4	6475.5	6819.0	7074.5	7365.6	7591.8	7623.2	7577.1	8536.3	7529.0
52.5°	6502.8	6536.3	6710.1	7045.1	7426.4	7784.5	8094.4	8127.9	8037.9	8622.2	7629.5
55°	6069.2	6050.4	6333.2	6779.2	7662.9	8408.6	8858.8	8884.0	8372.9	8888.1	7958.3
57.5°	4691.2	4781.3	5022.1	5560.4	6808.5	8685.0	9449.4	9359.3	8775.1	9022.2	8167.7
60°	3409.5	3388.6	3549.8	3910.1	5131.0	7485.0	8934.2	9026.4	8446.2	8132.1	6735.2
62.5°	2777.0	2747.7	2760.2	2772.9	3311.1	4967.6	6613.7	6611.7	6504.9	5845.1	4542.5
65°	2219.9	2289.0	2295.3	2389.6	2458.7	2967.6	3832.5	4037.8	3516.3	2883.8	2092.2
67.5°	1673.3	1648.2	1732.0	2067.1	2196.9	2142.4	2092.2	2115.2	1503.7	1084.8	1022.0
70°	986.4	975.9	1076.5	1440.9	1809.5	1702.7	1577.0	1579.1	1032.5	758.2	844.0
72.5°	540.3	538.2	559.2	730.9	1028.3	1068.1	946.6	975.9	615.7	613.6	659.7
75°	301.6	295.3	289.1	322.5	370.7	391.7	400.0	404.2	423.0	473.3	492.2
77.5°	111.0	106.8	106.8	123.5	157.1	196.9	249.2	253.4	299.5	343.5	362.3
80°	37.7	41.9	56.5	77.5	104.7	140.3	169.6	173.8	211.5	240.9	247.1
82.5°	23.0	25.1	37.7	54.4	75.4	98.4	125.6	127.7	157.1	175.9	184.3
85°	10.5	12.5	20.9	33.5	48.2	64.9	67.0	67.0	64.9	67.0	62.8
87.5°	0.0	0.0	4.2	4.2	4.2	6.3	8.4	6.3	10.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6333.2	6333.2	6333.2	6333.2	6333.2	6333.2	6333.2	6333.2	6333.2	6333.2	6333.2
2.5°	6276.6	6253.5	6182.4	6119.5	6100.6	6016.9	5893.3	5907.9	5818.0	5859.8	5815.9
5°	6190.7	6113.2	5931.0	5853.5	5650.3	5558.3	5495.4	5338.3	5265.0	5250.4	5187.5
7.5°	5970.8	5922.7	5694.3	5484.9	5269.2	5084.9	4848.3	4687.0	4571.8	4540.4	4448.2
10°	5797.0	5690.2	5373.9	5055.6	4747.7	4427.3	4119.5	3878.6	3761.4	3625.2	3579.1
12.5°	5625.3	5464.0	5036.7	4628.4	4230.5	3826.2	3453.5	3160.3	2904.7	2844.0	2823.1
15°	5518.5	5237.8	4735.2	4243.0	3677.5	3149.8	2777.0	2584.3	2427.3	2362.4	2408.5
17.5°	5378.1	5051.4	4446.2	3790.6	3168.6	2682.8	2370.7	2251.4	2194.8	2201.1	2182.2
20°	5202.2	4875.5	4067.1	3380.1	2714.2	2326.7	2148.8	2104.8	2113.1	2127.8	2121.5
22.5°	5076.5	4661.8	3792.7	2961.3	2345.6	2129.9	2056.6	2025.2	2052.4	2065.0	2054.5
25°	4980.2	4479.7	3459.8	2590.6	2132.0	2018.9	1985.3	1983.2	2025.2	2041.9	2031.4
27.5°	4892.3	4310.0	3128.9	2307.9	1989.6	1933.0	1922.5	1947.7	1974.9	1991.7	2006.3
30°	4839.9	4180.2	2818.9	2071.2	1918.3	1891.2	1872.3	1895.4	1910.0	1926.7	1918.3
32.5°	4890.2	4088.0	2519.4	1937.2	1859.7	1832.5	1857.6	1843.0	1868.1	1882.7	1859.7
35°	5047.3	4006.4	2305.8	1866.0	1792.7	1803.2	1807.4	1801.1	1811.5	1799.0	1826.2
37.5°	5202.2	3977.0	2109.0	1805.3	1761.3	1761.3	1757.1	1744.6	1765.5	1761.3	1773.8
40°	5399.1	3995.9	1941.4	1740.4	1732.0	1727.8	1711.0	1708.9	1700.6	1702.7	1706.8
42.5°	5570.8	4037.8	1845.1	1698.5	1704.7	1713.1	1681.7	1656.6	1667.0	1646.1	1646.1
45°	5753.0	4075.5	1759.2	1669.1	1662.8	1660.8	1635.7	1620.9	1612.6	1614.7	1633.6
47.5°	6039.9	4129.9	1694.3	1629.4	1633.6	1602.1	1595.9	1577.0	1585.4	1597.9	1600.0
50°	6243.1	4245.1	1644.0	1583.3	1597.9	1577.0	1539.3	1531.0	1531.0	1551.9	1547.7
52.5°	6385.5	4406.3	1595.9	1533.0	1539.3	1522.5	1510.0	1491.1	1478.6	1507.9	1522.5
55°	6821.1	4674.4	1583.3	1491.1	1489.1	1472.3	1449.2	1430.4	1424.1	1428.3	1457.6
57.5°	6779.2	4590.7	1543.5	1417.8	1413.6	1390.6	1367.6	1361.2	1359.2	1363.3	1371.8
60°	5503.8	3390.7	1378.1	1334.1	1327.8	1323.6	1300.5	1275.4	1262.8	1275.4	1264.9
62.5°	3642.0	2270.2	1214.7	1233.5	1237.7	1227.3	1189.5	1164.4	1168.6	1183.3	1160.2
65°	1788.6	1334.1	1101.6	1151.8	1156.0	1126.7	1091.1	1061.8	1047.1	1059.7	1049.2
67.5°	1022.0	1019.9	1009.5	1061.8	1059.7	1030.4	973.9	948.7	923.6	927.8	921.5
70°	867.1	883.8	904.7	936.1	934.0	900.5	833.5	814.7	779.1	774.9	764.4
72.5°	682.7	712.1	758.2	781.2	762.3	720.4	676.4	645.0	613.6	594.8	601.1
75°	506.8	548.7	573.8	588.5	559.2	536.1	500.6	462.8	425.1	408.4	402.1
77.5°	368.6	381.1	404.2	414.7	395.9	372.8	351.9	314.1	278.5	255.5	249.2
80°	257.6	266.0	282.7	282.7	282.7	272.2	245.1	207.3	184.3	163.3	159.2
82.5°	180.1	188.5	205.2	196.9	194.8	182.2	165.4	136.2	111.0	96.4	92.2
85°	62.8	69.1	83.8	100.5	106.8	104.7	94.3	75.4	58.6	48.2	44.0
87.5°	14.6	14.6	16.7	14.6	14.6	16.7	14.6	14.6	14.6	10.5	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)